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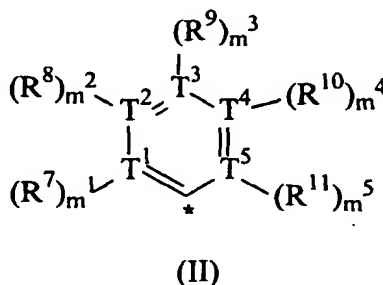
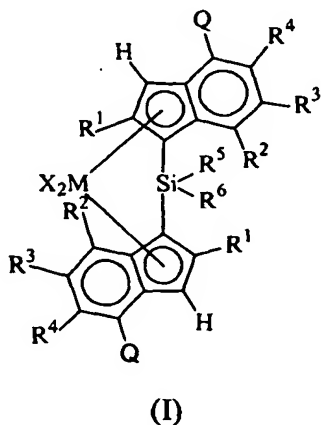
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(54) Title: PROCESS FOR THE COPOLYMERIZATION OF ETHYLENE



(57) **Abstract:** A process for producing a copolymer of ethylene containing from 0.1 to 99 % by mol of one or more derived units of alpha-olefins of formula $\text{CH}_2=\text{CHA}$, wherein A is a $\text{C}_2\text{-C}_{20}$ alkyl radical, comprising contacting, under polymerization conditions, ethylene and one or more alpha-olefins in the presence of a catalyst system obtainable by contacting: a) a metallocene compound of formula (I): wherein M is zirconium, titanium or hafnium; X, same or different, is a hydrogen atom, a halogen atom, or an hydrocarbon group; R^1 , is a hydrocarbon group; R^2 , R^3 , R^4 , R^5 and R^6 , are hydrogen atoms or

hydrocarbon groups; Q is a radical of formula (II), being bonded to the indenyl at the position marked by the symbol *; (II) wherein: T^1 , T^2 , T^3 , T^4 and T^5 , are carbon atoms (C) or nitrogen atoms (N); m^1 , m^2 , m^3 , m^4 and m^5 are 0 or 1; R^7 , R^8 , R^9 , R^{10} and R^{11} are hydrogen atoms or hydrocarbon groups; and b) an alumoxane or a compound capable of forming an alkyl metallocene cation.